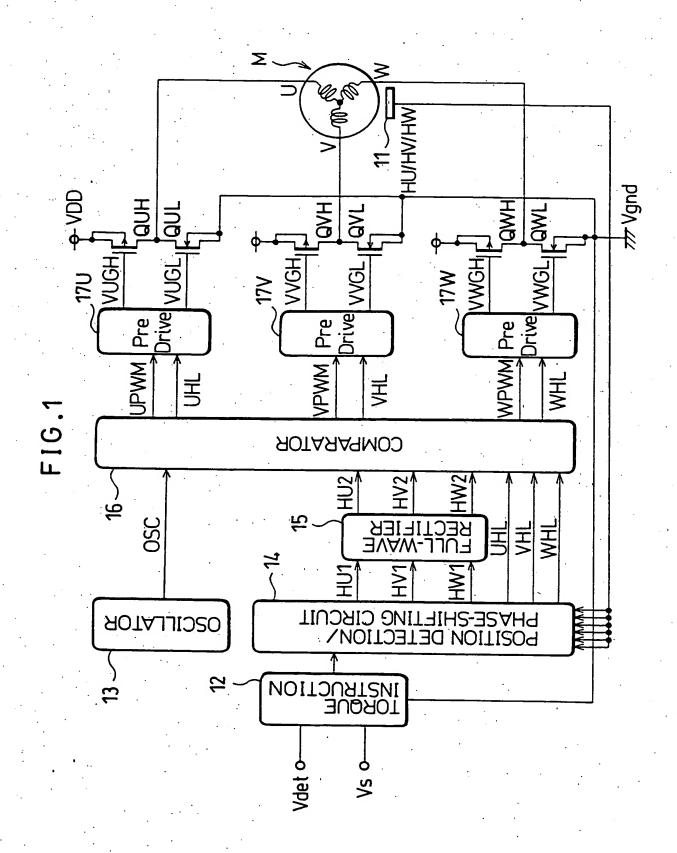
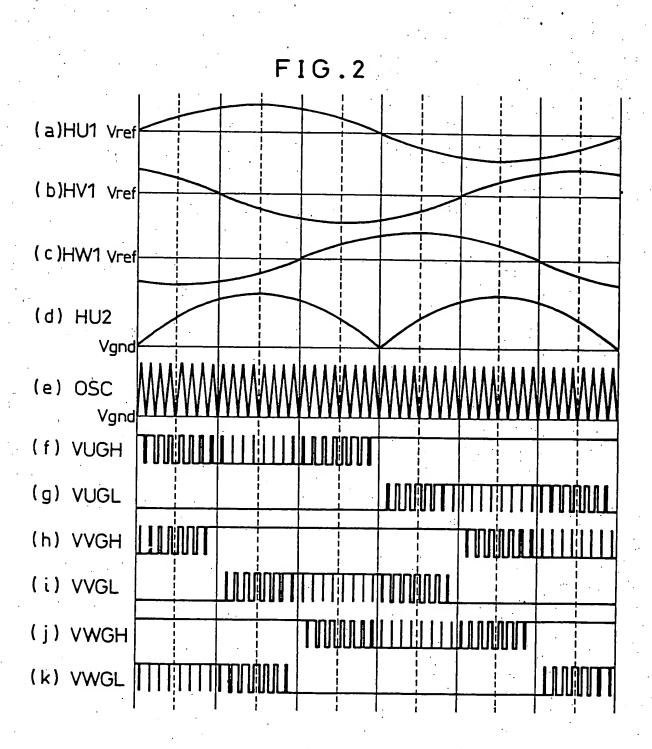
Hogan & Hartson 81876.0062 Toshiro OKUBO Drive Controller for Brushless Motors EV 324 111 976 US 8 Drawing Sheets; Sheet 1 of 8



Hogan & Hartson 81876.0062 Toshiro OKUBO Drive Controller for Brushless Motors EV 324 111 976 US 8 Drawing Sheets; Sheet 2 of 8



Hogan & Hartson 81876.0062 Toshiro OKUBO Drive Controller for Brushless Motors EV 324 111 976 US 8 Drawing Sheets; Sheet 3 of 8

FIG.3

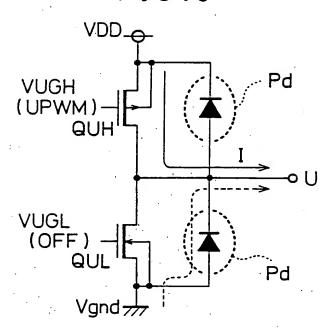


FIG.4

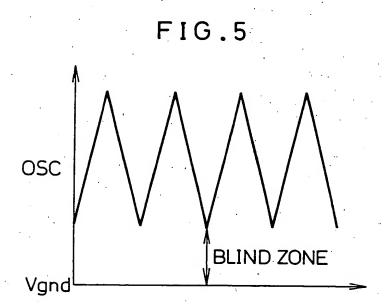
PWM PWM
ON OFF

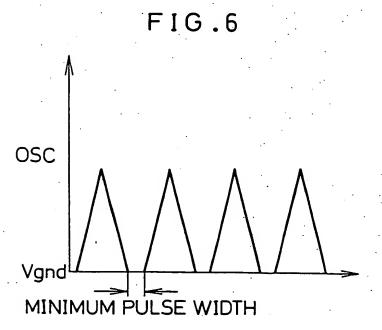
Vu

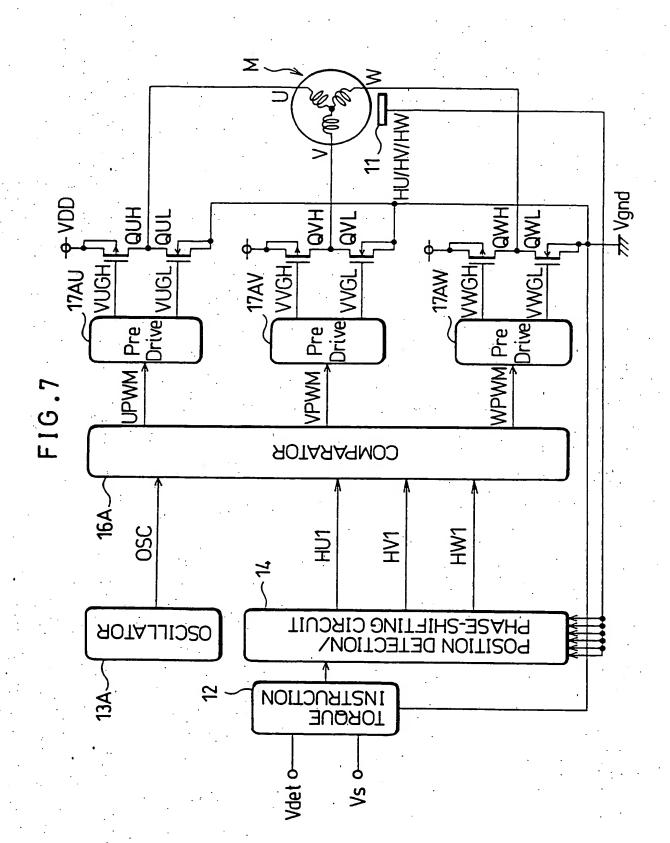
Vgnd

Vf

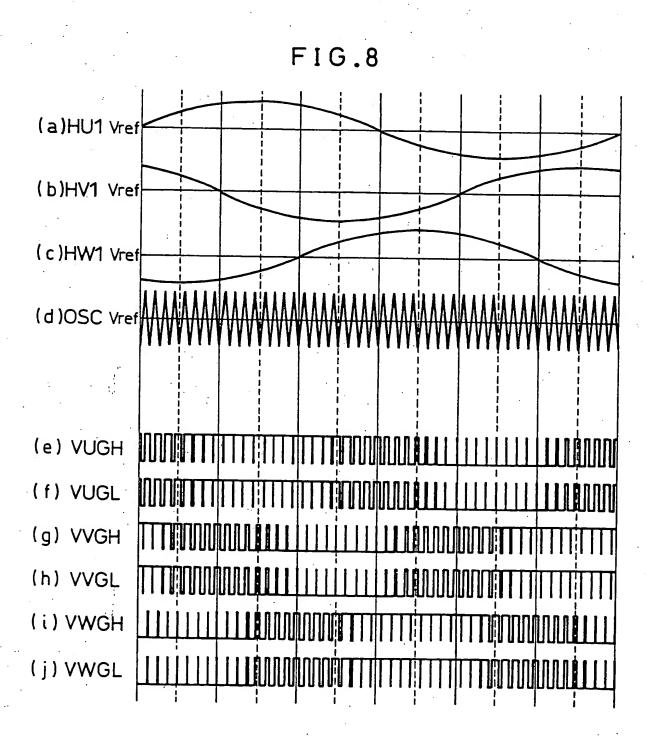
Hogan & Hartson 81876.0062 Toshiro OKUBO Drive Controller for Brushless Motors EV 324 111 976 US 8 Drawing Sheets; Sheet 4 of 8



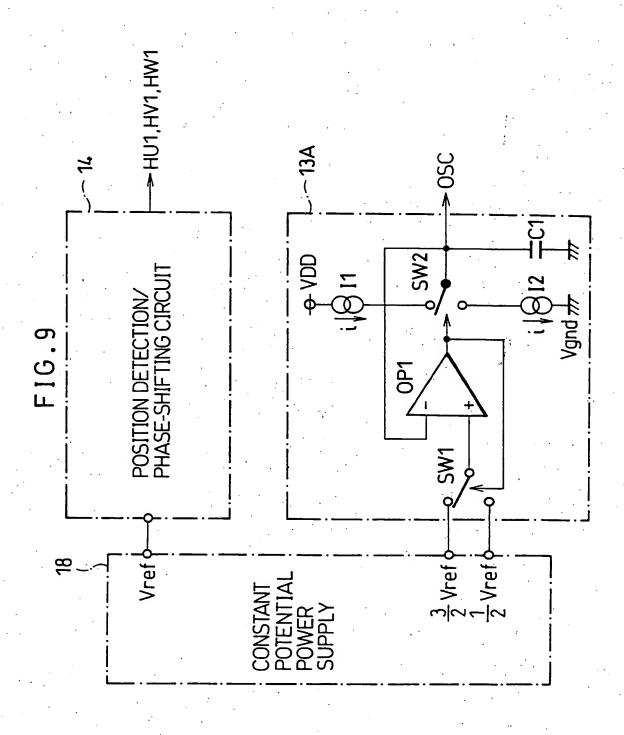




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Hogan & Hartson 81876.0062 Toshiro OKUBO Drive Controller for Brushless Motors EV 324 111 976 US 8 Drawing Sheets; Sheet 7 of 8



Hogan & Hartson 81876.0062 Toshiro OKUBO Drive Controller for Brushless Motors EV 324 111 976 US 8 Drawing Sheets; Sheet 8 of 8

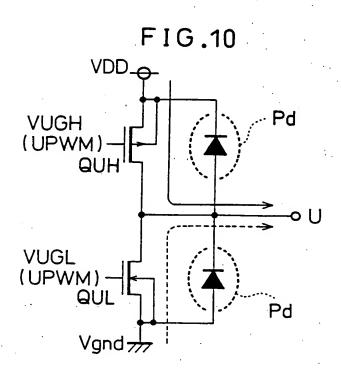


FIG.11

PWM PWM
ON OFF

Vu

Vgnd